





15. The method of claim 12 wherein the user accesses the computing resource using at least one wireless link.

16. A method of providing a user secure access to a computing resource from an external site, the method comprising the steps of:

5        sending a request to access a computing resource;

         providing a user identifier, the user identifier corresponding to an asserted identity, to a proxy authenticating server via a remote access point;

         providing, in response to a challenge, a certificate to authenticate the asserted identity, to the proxy authenticating server via the remote access point; and

10        receiving an address for sending and receiving data to and from the computing resource, the address corresponding to limited access to the computing resource.

17. The method of claim 16 wherein the address for sending and receiving data is a universal resource locator.

18. The method of claim 17 further comprising receiving by the user a key for  
15        encrypting communications to the computing resource.

19. The method of claim 18 further comprising using the key to decrypt communications from the computing resource.

20. A method for setting up a secure link between a server and a client using wireless transmission, wherein the client machine is a wireless station and the server is an  
20        authenticator, the client and server securely exchanging keys to establish the secure link with encryption of at least one message exchanged between the client and the server, the method comprising the steps of:

         asserting an identity;

         responding to an authentication request by providing a certificate to prove the asserted  
25        identity; and





32. A computer-readable medium as in claim 29 having computer executable instructions wherein the user accesses the computing resource using at least one wireless link.

33. A computer-readable medium having computer executable instructions for performing the steps of a method of providing a user secure access to a computing resource from an external site, the method comprising the steps of:

5 sending a request to access a computing resource;

providing a user identifier, the user identifier corresponding to an asserted identity, to initiate a log-in in order to access the computing resource;

10 providing, in response to a challenge, a certificate to authenticate the asserted identity to obtain access to the computing resource; and

receiving an address for sending and receiving data to and from the computing resource.

34. A computer-readable medium as in claim 33 having computer executable instructions wherein the address for sending and receiving data is a universal resource locator.

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35. A computer-readable medium as in claim 34 having computer executable instructions for performing the step of receiving a key for encrypting communications to the computing resource.

36. A computer-readable medium as in claim 35 having computer executable instructions for performing the step of using the key to decrypt communications from the computing resource.

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